

AMENDMENTS TO THE SPECIFICATION

Please insert the following new paragraph at line 23, on page 14:

FIG. 1A is a schematic representation of a reaction chamber and apparatus according to a preferred embodiment of the present invention;

Please insert the following new paragraph at line 7, on page 30:

Accordingly, and with reference to FIG. 1A, the present invention contemplates that reacting surface 10, and associated cones 20 or wedges 120 (i.e., comprising atomically-sharp peaks), be contained within reaction chamber 50. Deuterium source 52 supplies ionized deuterium, wherein the ionized deuterium enters chamber 50 and comes into contact with reacting surface 10 (i.e., reacting surface 10 functions as a cathode) and anode 54. Preferably, a power source 56 provides the requisite electrical potential between reacting surface/cathode 10 and anode 54, wherein reacting surface/cathode 10 and anode 54 are preferably physically separated from one another. Additionally, to cool reacting surface/cathode 10, a conduit 58, with cooling fluid 58a circulating therethrough, preferably contacts the underside portion of reacting surface/cathode 10; thereby, allowing heat to flow from reacting surface/cathode 10 to the circulating cooling fluid 58a.